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Docket No. 87305.0024 Costomer No. 30734

MAR 2 2 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Patent No.: 6,706,141 B

Inventors: Heinz STEINHARDT, et al.

Issue Date: Mach 16, 2004

For: DEVICE TO GENERATE EXCITED/IONIZED PARTICLES IN A PLASMA

PECEIVED TO 1700

REQUEST FOR CERTIFICATE OF CORRECTION

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Attention: Certificate of Correction Branch

Certificate

MAR 2 4 2004

of Correction

Sir:

Pursuant to 35 U.S.C. § 254 and 37 C.F.R. § 1.322, this is a request for the issuance of a Certificate of Correction in the above-identified patent. Two (2) copies of PTO Form 1050 are appended. The Certificate of Correction involves correcting the Abstract, line 6 by inserting the word "coaxial" between "a" and "conductor".

The mistake(s) identified in the appended Form occurred through no fault of the Inventors and no fee is due. Issuance of the Certificate of Correction containing the correction is respectfully requested.

Respectfully submitted,

BAKER & HOSTETLER LLP

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PTO/SB/44 (02-01)
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(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO

6,706,141 (1)

DATED

March 16, 2004

INVENTOR(S):

Heinz STEINHARDT, et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Correcting the Abstract, line 6 by inserting the word "coaxial" between "a" and "conductor".

MAILING ADDRESS OF SENDER:

Baker & Hostetler LLP Washington Square, Suite 1100 1050 Connecticut Avenue, N.W. Washington, D.C. 20036

PATENT NO. 6,706,141

No. of additional copies

□ 3

Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

UNITED STATES PATENT AND TRADEMARK OFFICE **CERTIFICATE OF CORRECTION**

PATENT NO

: 6,706,141 B

DATED

March 16, 2004

INVENTOR(S):

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(12) United States Patent Steinhardt et al.

(10) Patent No.:

US 6,706,141 B1

(45) Date of Patent:

Mar. 16, 2004

(54) DEVICE TO GENERATE EXCITED/IONIZED PARTICLES IN A PLASMA

(75) Inventors: Heinz Steinhardt, Kottingbrunn (AT);

Alexander Gschwandtner, München (DE); Josef Mathuni, München (DE)

(73) Assignee: R3T Rapid Reactive Radicals

Technology, Munich (DE)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

(21) Appl. No.: 09/625,200

(22) Filed: Jul. 21, 2000

Related U.S. Application Data

(63) Continuation of application No. PCT/EP99/07617, filed on Oct. 11, 1999.

(30) Foreign Application Priority Data

(51) **Int. Cl.**⁷ **H05H 1/00**; C23C 16/00; H01J 21/00

111.31

(56) References Cited

U.S. PATENT DOCUMENTS

4.434.742 A	*	2/1004	Haaff -4 -1 1107700 1
4,434,742 A	7.	3/1964	Heaff et al 118/723 I
4,543,465 A	*	9/1985	Sakudo et al 219/121.4
5,356,672 A	*	10/1994	Schmitt, III et al 427/446
5,368,897 A			Kurihara et al 427/450
5,560,779 A	*	10/1996	Knowles et al 118/723 MP
5,734,143 A	*	3/1998	Kawase et al 219/121.43
5,961,772 A	*	10/1999	Selwyn 156/345
6,057,645 A	*	5/2000	Srivastava et al 315/111.21
6,187,072 B1	*	2/2001	Cheung et al 55/186

FOREIGN PATENT DOCUMENTS

DE	1902307 * 10/19	969 H05H/1/00
DE	3905303 C2 8/19	989
DE	3915477 A1 11/19	989
DE	4004560 A1 8/19	990
DE	4028525 A1 3/19	991
DE	4132558 C1 12/19	992
DE	19608949 A1 9/19	997
JP	9-115686 A * 5/19	997 H05H/1/02

* cited by examiner

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(57) ABSTRACT

A device to generate excited and/or ionized particles in plasma with a generator to generate an electromagnetic wave and at least one plasma zone, in which the excited and/or ionized particles are formed by the electromagnetic wave. The plasma zone is formed in an interior chamber of a conductor for the electromagnetic wave.

COAXIA 16 Claims, 4 Drawing Sheets

